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DIALOG(R)File 350:Derwent WPIX
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WPI Acc No: 2000-350381/200030

Granulation and crystallization of thermoplastic polyester after partial polycondensation involves addition to liquid and forced crystallization at high temperature or by adding seeds

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Inventor: MATTHAEI A

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200023497	A1	20000427	WO 99EP6617	A	19990908	200030 B
DE 19848245	A1	20000504	DE 1048245	A	19981020	200030

Priority Applications (No Type Date): DE 1048245 A 19981020

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200023497 A1 G 26 C08G-063/88

Designated States (National): BR CA CN IN JP KR MX US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

DE 19848245 A1 C08G-063/88

Abstract (Basic): WO 200023497 A1

NOVELTY - In the granulation and crystallization of thermoplastic (co)polyesters (I) after partial polycondensation to a precursor (II) and adding (II) to a liquid, crystallization is forced after adding (II) to the liquid, to accelerate crystallization, by keeping the liquid above 100 degreesC or producing crystallization seeds on the surface of the precursor.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the equipment used.

USE - The process is used for granulating and crystallizing polyesters, especially polytrimethyl terephthalate or polyethylene terephthalate (all claimed).

ADVANTAGE - An existing process, in which drops of liquid polyethylene terephthalate oligomer are cooled in a water bath or on a drum or conveyor belt gives amorphous pellets of weakly polycondensed

polyester, which require more energy and work for conversion to crystalline materials. Another process involves heating the amorphous granulate in a fluidized bed to avoid agglomeration. The present process avoids these drawbacks and is quicker. It can also operate at throughputs of several tonnes per hour.

pp: 26 DwgNo 0/0

Derwent Class: A23

International Patent Class (Main): C08G-063/88

International Patent Class (Additional): C08G-063/183; C08J-003/12;
C08L-067/02